

ABSTRACT OF THE DISCLOSURE

A metering device that includes a housing (1) defining a cylindrical chamber (2) containing a reciprocating shuttle (3). The two opposed end parts of the chamber are interconnected by fluid flow ducts (11, 12) to a cylindrical valve bore (13). Contained within the valve (4) is a rotary valve rod (17) driven rotationally by a stepping motor (M). The valve rod (17) has part cut away to form channels or recesses (18,19,20,21,22). In one rotational position of the valve rod (17) a flow path is established from an inlet (16) to one end of the chamber (2) and a separate flow path is established from the other end of the chamber to an outlet (14). In an alternate orientation of the valve rod (17) a flow path is formed from the inlet (16) to the other end of the chamber (2) and the first end of the chamber is connected to an outlet (15).